

AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) In a computerized system environment including computer-executable instructions, and a plurality of interfaces for accessing the computer-executable instructions, a method of testing the computer-executable instructions through each of the plurality of interfaces using a single testing program, the method comprising the acts of:

identifying a plurality of interfaces that are intended to access an identified application program;

identifying an application program interface that is common to each of the plurality of interfaces that can access the application program, such that a function of the application program that can be accessed by each of the plurality of interfaces can be tested;

through a test program, providing at least one representation of a first value to the application program through the common application program interface;

receiving a result from the application program; and

based on the value of the result from the application program, determining that each of the plurality of interfaces is interoperable with the application program;

identifying one or more other application program interfaces that are common to the identified user interfaces; and

converting the test program, by recompiling source code of the test program to function with at least one of the one or more other application program interfaces, such that the test program is configured to access the identified application program through at least one of the one or more other application program interfaces.

2. (Previously Presented) The method as recited in claim 1, wherein the at least one representation of the first value is unique to at least one of the plurality of interfaces.

3. (Original) The method as recited in claim 2, wherein the at least one representation of the first value is identified automatically prior to providing the at least one representation to the application program.

4. (Currently Amended) The method as recited in claim 1, wherein the plurality of interfaces includes ~~one or more of~~ at least one telephone user interface, ~~a graphical user interface, a command line interface, and a machine-based interface.~~

5. (Original) The method as recited in claim 1, wherein the identified application program is an application program to be tested.

6-9 (Cancelled)

7. (Original) The method as recited in claim 6, wherein the first value is provided to the application program by the test program through the identified common application program interface.

8. (Original) The method as recited in claim 6, further comprising identifying one or more other application program interfaces that are common to the identified user interfaces.

9. (Original) The method as recited in claim 8, further comprising converting the test program such that it is configured to access the identified application program through at least one of the one or more other application program interfaces.

10. (Original) The method as recited in claim 1, further comprising receiving one or more results from the application program through the corresponding one or more interfaces that are intended to access the application program.

11. (Original) The method as recited in claim 10, further comprising, based on the received one or more results, identifying an expected result by which the received one or more results can be compared.

12-13 (Cancelled)

14. (Previously Presented) In a computerized system environment including computer-executable instructions, and a plurality of interfaces for accessing the computer-executable instructions, a method of testing an application program through each of the plurality of interfaces using a single testing program, the method comprising:

identifying a plurality of interfaces that are intended to access an application program;

sending a first value to the application program for each of the plurality of identified interfaces, wherein the first value is sent using an application program interface that is common to each of the plurality of identified interfaces;

receiving a plurality of results from the application program, wherein each result in the plurality corresponds to an identified one of the plurality of interfaces; and

comparing the plurality of results with each other to identify an expected result.

15. (Original) The method as recited in claim 14, further comprising sending a next value to the application program for each of the plurality of identified interfaces.

16. (Original) The method as recited in claim 15, further comprising receiving a next result from the application program that is based in part on the next value that has been sent to the application.

17. (Original) The method as recited in claim 16, further identifying that the application is interoperable with at least one of the identified interfaces by comparing the next result with the expected result.

18. (Original) The method as recited in claim 14, further comprising generating a test program that is configured to access the application program through the identified common application program interface.

19. (Original) The method as recited in claim 18, further comprising identifying one or more other application program interfaces that are common to the identified user interfaces.

20. (Currently Amended) The method as recited in claim 19, further comprising converting the test program, by recompiling source code of the test program to function with at least one of the one or more other application program interfaces, such that it is configured to access the identified application program through at least one of the one or more other application program interfaces.

21. (Currently Amended) In a computerized system environment including computer-executable instructions, and a plurality of interfaces for accessing the computer-executable instructions, a computer program product having computer-executable code stored thereon that, when executed, causes a computerized system to perform a method of testing an application program through each of the plurality of interfaces using a single testing program, the method comprising:

identifying a plurality of interfaces that are intended to access an identified application program;

identifying an application program interface that is common to each of the plurality of interfaces that can access the application program, such that a function of the application program that can be accessed by each of the plurality of interfaces can be tested;

through a test program, providing at least one representation of a first value to the application program through the common application program interface;

receiving a result from the application program; and

based on the value of the result from the application program, determining that each of the plurality of interfaces is interoperable with the application program;

identifying one or more other application program interfaces that are common to the identified user interfaces;

converting an application programming interface call corresponding to the application program interface to an application programming interface for compatibility with one of the one or more other application program interfaces; and

through the test program, providing at least one representation of a value to the application program through the one of the one or more other application programming interfaces, by providing the converted application programming interface call.

22. (Previously Presented) In a computerized system environment including computer-executable instructions, and a plurality of interfaces for accessing the computer-executable instructions, a computer program product having computer-executable instructions stored thereon that, when executed, cause a computerized system to perform a method of testing an application program through each of the plurality of interfaces using a single testing program, the method comprising:

identifying a plurality of interfaces that are intended to access an application program;

sending a first value to the application program for each of the plurality of identified interfaces, wherein the first value is sent using an application program interface that is common to each of the plurality of identified interfaces;

receiving a plurality of results from the application program, wherein each result in the plurality corresponds to an identified one of the plurality of interfaces; and

comparing the plurality of results with each other to identify an expected result.

23. (Currently Amended) The method of claim 1, wherein providing at least one representation of a first value to the application program through the common application program interface comprises:

automatically identifying a plurality of isomorphisms of a value that are specific to one of the interfaces from among the identified plurality of interfaces; and

testing ~~various~~ the identified isomorphisms of ~~a~~ the value such that different forms of one or more values may be tested.